

## RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical  
Information Center (STIC) no errors detected.

Application Serial Number: 09/462,929  
Source: 1FW/b  
Date Processed by STIC: 10/10/06

# ***ENTERED***



IFW16

## RAW SEQUENCE LISTING

DATE: 10/10/2006

PATENT APPLICATION: US/09/462,929

TIME: 15:08:38

Input Set : N:\AMC\462929.txt

Output Set: N:\CRF4\10102006\I462929.raw

3 <110> APPLICANT: Old, Lloyd J.  
 4 Scanlan, Matthew J.  
 5 Stockert, Elisabeth  
 6 Gure, Ali  
 7 Chen, Yao-Tseng  
 8 Gout, Ivan  
 9 O'Hare, Michael  
 10 Obata, Yuichi  
 11 Pfreundschuh, Michael  
 12 Tureci, Ozlem  
 13 Sahin, Ugur  
 16 <120> TITLE OF INVENTION: CANCER-ASSOCIATED NUCLEIC ACIDS AND  
 17 POLYPEPTIDES  
 19 <130> FILE REFERENCE: L0461.70078US00  
 21 <140> CURRENT APPLICATION NUMBER: 09/462,929  
 C--> 22 <141> **CURRENT FILING DATE: 2000-06-07**  
 24 <150> PRIOR APPLICATION NUMBER: PCT/US98/14679  
 25 <151> PRIOR FILING DATE: 1998-07-15  
 27 <150> PRIOR APPLICATION NUMBER: US 08/896,164  
 28 <151> PRIOR FILING DATE: 1997-07-17  
 30 <150> PRIOR APPLICATION NUMBER: US 09/948,705  
 31 <151> PRIOR FILING DATE: 1997-10-10  
 33 <150> PRIOR APPLICATION NUMBER: US 09/102,322  
 34 <151> PRIOR FILING DATE: 1998-06-22  
 36 <150> PRIOR APPLICATION NUMBER: US 60/061,599  
 37 <151> PRIOR FILING DATE: 1997-10-10  
 39 <150> PRIOR APPLICATION NUMBER: US 60/061,765  
 40 <151> PRIOR FILING DATE: 1997-10-10  
 42 <150> PRIOR APPLICATION NUMBER: UK 9721697.2  
 43 <151> PRIOR FILING DATE: 1997-10-11  
 45 <160> NUMBER OF SEQ ID NOS: 822  
 47 <170> SOFTWARE: PatentIn version 3.2  
 49 <210> SEQ ID NO: 1  
 50 <211> LENGTH: 474  
 51 <212> TYPE: DNA  
 52 <213> ORGANISM: Homo sapiens  
 55 <220> FEATURE:  
 56 <221> NAME/KEY: misc\_feature  
 57 <222> LOCATION: (26)..(26)  
 58 <223> OTHER INFORMATION: n is a, c, g, or t  
 60 <220> FEATURE:  
 61 <221> NAME/KEY: misc\_feature  
 62 <222> LOCATION: (68)..(68)

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Input Set : N:\AMC\462929.txt

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63 <223> OTHER INFORMATION: n is a, c, g, or t  
65 <220> FEATURE:  
66 <221> NAME/KEY: misc\_feature  
67 <222> LOCATION: (119)..(119) /  
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71 <221> NAME/KEY: misc\_feature  
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76 <221> NAME/KEY: misc\_feature  
77 <222> LOCATION: (195)..(195) /  
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81 <221> NAME/KEY: misc\_feature  
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83 <223> OTHER INFORMATION: n is a, c, g, or t  
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103 <223> OTHER INFORMATION: n is a, c, g, or t  
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110 <220> FEATURE:  
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121 <221> NAME/KEY: misc\_feature  
122 <222> LOCATION: (403)..(403) /  
123 <223> OTHER INFORMATION: n is a, c, g, or t

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Input Set : N:\AMC\462929.txt

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127 <222> LOCATION: (413)..(413) ✓  
128 <223> OTHER INFORMATION: n is a, c, g, or t  
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131 <221> NAME/KEY: misc\_feature ✓  
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138 <223> OTHER INFORMATION: n is a, c, g, or t  
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146 <221> NAME/KEY: misc\_feature ✓  
147 <222> LOCATION: (433)..(433)  
148 <223> OTHER INFORMATION: n is a, c, g, or t  
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152 <222> LOCATION: (435)..(436)  
153 <223> OTHER INFORMATION: n is a, c, g, or t  
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156 <221> NAME/KEY: misc\_feature ✓  
157 <222> LOCATION: (438)..(438)  
158 <223> OTHER INFORMATION: n is a, c, g, or t  
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161 <221> NAME/KEY: misc\_feature  
162 <222> LOCATION: (442)..(442) ✓  
163 <223> OTHER INFORMATION: n is a, c, g, or t  
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166 <221> NAME/KEY: misc\_feature ✓  
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168 <223> OTHER INFORMATION: n is a, c, g, or t  
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171 <221> NAME/KEY: misc\_feature ✓  
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173 <223> OTHER INFORMATION: n is a, c, g, or t  
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176 <221> NAME/KEY: misc\_feature ✓  
177 <222> LOCATION: (453)..(453)  
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181 <221> NAME/KEY: misc\_feature ✓  
182 <222> LOCATION: (457)..(458)  
183 <223> OTHER INFORMATION: n is a, c, g, or t  
185 <220> FEATURE:

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Input Set : N:\AMC\462929.txt

Output Set: N:\CRF4\10102006\I462929.raw

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190 <220> FEATURE:
191 <221> NAME/KEY: misc_feature
192 <222> LOCATION: (463)..(463)
193 <223> OTHER INFORMATION: n is a, c, g, or t
195 <220> FEATURE:
196 <221> NAME/KEY: misc_feature
197 <222> LOCATION: (467)..(467)
198 <223> OTHER INFORMATION: n is a, c, g, or t
200 <220> FEATURE:
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203 <223> OTHER INFORMATION: n is a, c, g, or t
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210 cgctctgtct ctgggacngc ttcattcaag tcttgactta cgccatcttg gcaagatgtc      180
212 tgcttgccat ccaanttctc catggtatcc cctttanaga cttcaccaag agatgttctt      240
214 ctctcaaaga tgttggtatt attgntaact tgantcccat tttgcttcag taagcctgaa      300
216 tacctcagct tccaaatctc taatccgcac ttggaggcct tgcacttcca naagangngc      360
218 tttttcaaat cttcnagttt cnttcttctg ctctgtctt tgnatagatc aanctcnttt      420
220 tgntgnnagt cntntntnaa cntcnttgcg tgntggngng tcntttncan nggc          474
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224 <211> LENGTH: 1054
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226 <213> ORGANISM: Homo sapiens
229 <220> FEATURE:
230 <221> NAME/KEY: misc_feature
231 <222> LOCATION: (27)..(27)
232 <223> OTHER INFORMATION: n is a, c, g, or t
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235 <221> NAME/KEY: misc_feature
236 <222> LOCATION: (29)..(30)
237 <223> OTHER INFORMATION: n is a, c, g, or t
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241 <222> LOCATION: (46)..(46)
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250 <221> NAME/KEY: misc_feature
251 <222> LOCATION: (85)..(86)
252 <223> OTHER INFORMATION: n is a, c, g, or t
254 <220> FEATURE:

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Input Set : N:\AMC\462929.txt

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255 <221> NAME/KEY: misc\_feature  
256 <222> LOCATION: (89)..(89) ✓  
257 <223> OTHER INFORMATION: n is a, c, g, or t  
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260 <221> NAME/KEY: misc\_feature  
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275 <221> NAME/KEY: misc\_feature  
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292 <223> OTHER INFORMATION: n is a, c, g, or t  
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295 <221> NAME/KEY: misc\_feature  
296 <222> LOCATION: (166)..(166) ✓  
297 <223> OTHER INFORMATION: n is a, c, g, or t  
299 <220> FEATURE:  
300 <221> NAME/KEY: misc\_feature  
301 <222> LOCATION: (170)..(170) ✓  
302 <223> OTHER INFORMATION: n is a, c, g, or t  
304 <220> FEATURE:  
305 <221> NAME/KEY: misc\_feature  
306 <222> LOCATION: (200)..(200) ✓  
307 <223> OTHER INFORMATION: n is a, c, g, or t  
309 <220> FEATURE:  
310 <221> NAME/KEY: misc\_feature  
311 <222> LOCATION: (204)..(204) ✓  
312 <223> OTHER INFORMATION: n is a, c, g, or t  
314 <220> FEATURE:  
315 <221> NAME/KEY: misc\_feature

RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/09/462,929

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FYI

Input Set : N:\AMC\462929.txt  
Output Set: N:\CRF4\10102006\I462929.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; N Pos. 26, 68, 119, 138, 195, 217, 265, 274, 351, 356, 358, 375, 382, 403, 413  
Seq#:1; N Pos. 417, 423, 426, 427, 433, 435, 436, 438, 442, 445, 450, 453, 457, 458, 460  
Seq#:1; N Pos. 463, 467, 470, 471  
Seq#:2; N Pos. 27, 29, 30, 46, 58, 85, 86, 89, 101, 103, 107, 110, 128, 155, 157, 166, 170  
Seq#:2; N Pos. 200, 204, 208, 225, 227, 234, 236, 238, 244, 255, 258, 268, 271, 276, 278  
Seq#:2; N Pos. 292, 300, 307, 309, 317, 323, 330, 331, 335, 343, 350, 356, 363, 366, 375  
Seq#:2; N Pos. 377, 378, 413, 425, 430, 431, 437, 439, 444, 449, 462, 463, 466, 469, 482  
Seq#:2; N Pos. 499, 500, 506, 508, 509, 510, 513, 523, 529, 531, 532, 535, 541, 549, 570  
Seq#:2; N Pos. 576, 596, 600, 607, 614, 615, 616, 619, 622, 624, 630, 636, 638, 641, 643  
Seq#:2; N Pos. 644, 654, 655, 659, 663, 670, 676, 693, 694, 698, 700, 702, 703, 708, 721  
Seq#:2; N Pos. 722, 724, 727, 729, 731, 741, 748, 751, 752, 753, 754, 756, 758, 760, 764  
Seq#:2; N Pos. 767, 768, 774, 780, 782, 788, 789, 799, 806, 808, 817, 818, 820, 821, 826  
Seq#:2; N Pos. 827, 839, 841, 848, 849, 860, 862, 863, 864, 870, 871, 874, 882, 886, 888  
Seq#:2; N Pos. 896, 898, 900, 902, 929, 930, 952, 959, 964, 966, 968, 973, 980, 981, 985  
Seq#:2; N Pos. 1017, 1025, 1027, 1033, 1035, 1039, 1041, 1047, 1052  
Seq#:3; N Pos. 263, 302, 330, 331, 355, 370, 394, 405, 419, 430, 435  
Seq#:4; N Pos. 108, 112, 138, 169, 177, 206, 225  
Seq#:5; N Pos. 383, 402, 412  
Seq#:6; N Pos. 730  
Seq#:8; N Pos. 535, 589, 594, 630, 631, 710  
Seq#:9; N Pos. 126, 128, 570  
Seq#:10; N Pos. 56, 66, 94, 124, 136, 140, 143, 145, 253, 257, 263, 292, 295, 352, 376  
Seq#:10; N Pos. 384, 391, 422, 424, 450, 461, 463, 474, 477, 478, 486, 495, 501, 521, 528  
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Seq#:11; N Pos. 39, 109, 143, 207, 233, 268, 270, 295, 299, 304, 310, 328, 350, 362, 370  
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Seq#:11; N Pos. 682, 684, 686, 732, 735, 739, 746, 749, 760, 768, 794, 795, 804, 806, 815  
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Seq#:11; N Pos. 1019, 1022, 1023, 1027, 1030, 1047, 1049, 1053, 1061, 1066, 1067, 1070  
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Seq#:12; N Pos. 307, 546, 549, 577, 587, 597, 600, 616, 645, 673, 674, 684, 686, 687, 693  
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Seq#:12; N Pos. 845  
Seq#:13; N Pos. 11, 33, 292, 366, 369  
Seq#:14; N Pos. 11, 222, 420, 511, 536, 556, 561, 647, 651, 656, 657, 679, 683, 684, 686  
Seq#:14; N Pos. 688, 692, 701, 714, 717, 720, 725, 726, 741, 747, 758, 767, 800, 805, 809  
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**RAW SEQUENCE LISTING ERROR SUMMARY**  
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Seq#:14; N Pos. 1121,1123,1125,1132,1133,1135,1139,1141,1145,1148,1149,1152  
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Seq#:15; N Pos. 34,312,451,530,542,566,570,627,628,629,632,638,646,650,653  
Seq#:15; N Pos. 654,657,662,665,670,674,678,681,685,687,688,689,692,694,696  
Seq#:15; N Pos. 700,704,711,715,716,717,718,719,723,732,741,745,748,749,753  
Seq#:15; N Pos. 756,757,763,778,784,786,788,806,807,813,815,816,817,818,819  
Seq#:15; N Pos. 822,823,827,828,841,842,844,846,849,850,851,852,854,855,856

**Invalid <213> Response:**

Use of "Artificial" only as "<213> Organism" response is incomplete,  
per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:817



## VERIFICATION SUMMARY

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Input Set : N:\AMC\462929.txt

Output Set: N:\CRF4\10102006\I462929.raw

L:22 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:206 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0  
M:341 Repeated in SeqNo=1  
L:955 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:0  
M:341 Repeated in SeqNo=2  
L:1057 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:240  
M:341 Repeated in SeqNo=3  
L:1110 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:60  
M:341 Repeated in SeqNo=4  
L:1153 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:360  
L:1196 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:720  
L:1274 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:480  
M:341 Repeated in SeqNo=8  
L:1311 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:120  
M:341 Repeated in SeqNo=9  
L:1540 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:0  
M:341 Repeated in SeqNo=10  
L:2017 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:0  
M:341 Repeated in SeqNo=11  
L:2260 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:300  
M:341 Repeated in SeqNo=12  
L:2313 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:0  
M:341 Repeated in SeqNo=13  
L:2795 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:0  
M:341 Repeated in SeqNo=14  
L:3383 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:0  
M:341 Repeated in SeqNo=15  
L:3773 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:60  
M:341 Repeated in SeqNo=16  
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M:341 Repeated in SeqNo=17  
L:4399 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18 after pos.:540  
M:341 Repeated in SeqNo=18  
L:4594 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19 after pos.:0  
M:341 Repeated in SeqNo=19  
L:4701 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20 after pos.:180  
M:341 Repeated in SeqNo=20  
L:4752 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21 after pos.:180  
M:341 Repeated in SeqNo=21  
L:4895 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22 after pos.:120  
M:341 Repeated in SeqNo=22  
L:4971 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23 after pos.:180  
M:341 Repeated in SeqNo=23  
L:5028 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24 after pos.:0  
M:341 Repeated in SeqNo=24  
L:5094 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25 after pos.:120  
M:341 Repeated in SeqNo=25  
L:5223 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26 after pos.:0

**VERIFICATION SUMMARY**

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Input Set : N:\AMC\462929.txt

Output Set: N:\CRF4\10102006\I462929.raw

M:341 Repeated in SeqNo=26

L:5269 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27 after pos.:420

M:341 Repeated in SeqNo=27

L:65988 M:283 W: Missing Blank Line separator, <400> field identifier